

L 24240-66 EWI(m)/EPF(n)-2/T/ENP(t) IJP(c) JD/MW/JG

ACC NR: AP6014612

SOURCE CODE: UR/0386/66/003/009/0365/0369

AUTHOR: Goncharov, I. N.; Khukhareva, I. S.ORG: Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy)TITLE: Anomalous behavior of the critical current of heat-treated alloys of Nb + 75% Zr as functions of the field and temperatureSOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1966, 365-369

TOPIC TAGS: niobium alloy, zirconium alloy, temperature dependence, critical point, Curie point, superconductivity, critical magnetic field, metal heat treatment

ABSTRACT: The authors have investigated the critical current  $j_c(H, T)$  of wires of 0.18--0.29 mm diameter, made of Nb-75% Zr alloy annealed for one hour at 400- 500C, as functions of the magnetic field and the temperature, and observed marked deviations in behavior from the predictions of the phenomenological model proposed by P. W. Anderson (Phys. Rev. Lett. v. 9, 309, 1963). The measurements were made in the temperature interval from 1.5K to the Curie point  $T_c$  in a transverse magnetic field up to 80 kG. In strong fields  $j_c(T)$  is linear, but in weaker fields its character changes, and starting with some temperature a deviation from linearity is observed. At still lower values of  $T$ , saturation sets in; the lower the magnetic field, the higher the temperatures at which deviation and saturation occurs. When the investigated samples are sufficiently thick (0.25--0.29 mm in diameter)  $j_c(H, T)$

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becomes unstable, principally in medium fields and at temperatures lower than a fixed value that depends on the field and on the wire diameter. The instability decreases when the wire diameter is reduced below 0.19--0.22  $\mu$ m. The possible causes of these anomalies are briefly discussed. The measurements at temperatures from 4.2K to  $T_c$  were made in collaboration with M. Litomski and I. Ruzicka of the Czechoslovak Institute of Nuclear Research. Orig. art. has: 2 figures.

SUB CODE: 20/    SUBM DATE: 08Mar66/    ORIG REF: 007/    OTH REF: 007

Card 2/2 dda

L 38545-66 EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/JW/RW/OD  
 ACC NR: AT6014748 SOURCE CODE: UR/0000/65/000/000/0044/0052

AUTHORS: Bychkov, Yu. F.; Goncharov, I. N.; Khukhareva, I. S.

ORG: none

TITLE: The effect of the structural state on the superconducting properties of zirconium alloys with 20--25% Nb

SOURCE: Soveshchaniye po metallovedeniyu i metallofizike sverkhprovodnikov. 1st, 1964.  
Metallovedeniye i metallofizika sverkhprovodnikov (Metallography and physics of metals in superconductors); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 44-52

TOPIC TAGS: superconductivity, superconducting alloy, zirconium base alloy, niobium containing alloy, shear modulus, internal friction, resistivity, tensile strength, hardness, magnetic field

ABSTRACT: The results of a study of the effect of various metallurgical factors on the superconducting properties of zirconium alloys containing 15--25% niobium are given. In order to determine the structural changes that occur during the tempering of cold-worked alloys, the shear modulus  $G$ , internal friction  $Q^{-1}$ , resistivity  $\rho$ , the critical temperature of the superconducting transition  $T_k$ , tensile strength  $\sigma_B$ , hardness HV, and relative elongation  $\delta$  were measured. The ingots were smelted in an arc furnace in an argon atmosphere. The starting materials were zirconium iodide and

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refined niobium. Ribbons with a thickness of 0.25 mm and wires with a diameter of 0.25 mm were prepared. The most important consequences of intermediate tempering of alloys with 20--25% Nb at 400-550C are a sharp increase in  $J_k$ , a comparatively weak dependence of  $J_k$  upon the applied magnetic field, and an almost complete absence of anisotropy of the critical current density in the region of separation of the  $\omega$ -phase (see Fig. 1). Annealing at 400--500C reduces the number of point and line flaws. The value of  $T_k$  for alloys with 5--35% Nb was determined by the change in the magnetic moment. The dependence of  $T_k$  upon the temperature of one-hour tempering was also studied (see Fig. 2). The authors thank V. Ya. Fil'kin for the wire samples, A. P. Korostelev for producing the apparatus, and V. F. Chumakov for help with the measurements.

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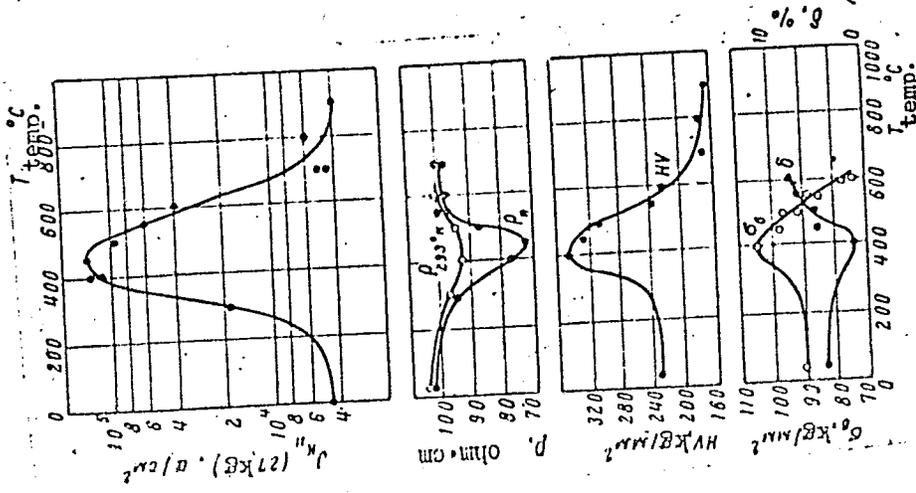


Fig. 1. Physical properties of Zr alloy with 20% Nb.  $J_k$  and  $\rho$  after intermediate tempering with subsequent cold working by 95%;  $\sigma_B$ ,  $\delta$ , and HV in stage of intermediate tempering (without subsequent deformation) as function of tempering temperature for one hr.

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L 36868-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) WW/JD/JG  
ACC NR: AT6023736 (A) SOURCE CODE: UR/2755/66/000/005/0044/0050

AUTHOR: Bychkov, Yu. F.; Concharov, I. N.; Khukhareva, I. S.

ORG: none

TITLE: Effect of oxygen additions on the structure and superconducting properties of Zr-Nb alloys

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Metallurgiya i metallovedeniye chistykh metallov, no. 5, 1966, 44-50

TOPIC TAGS: zirconium alloy, niobium containing alloy, oxygen containing alloy, superconducting alloy, alloy structure, alloy hardness, ~~alloy superconductivity~~  
CURRENT DENSITY, OXYGEN

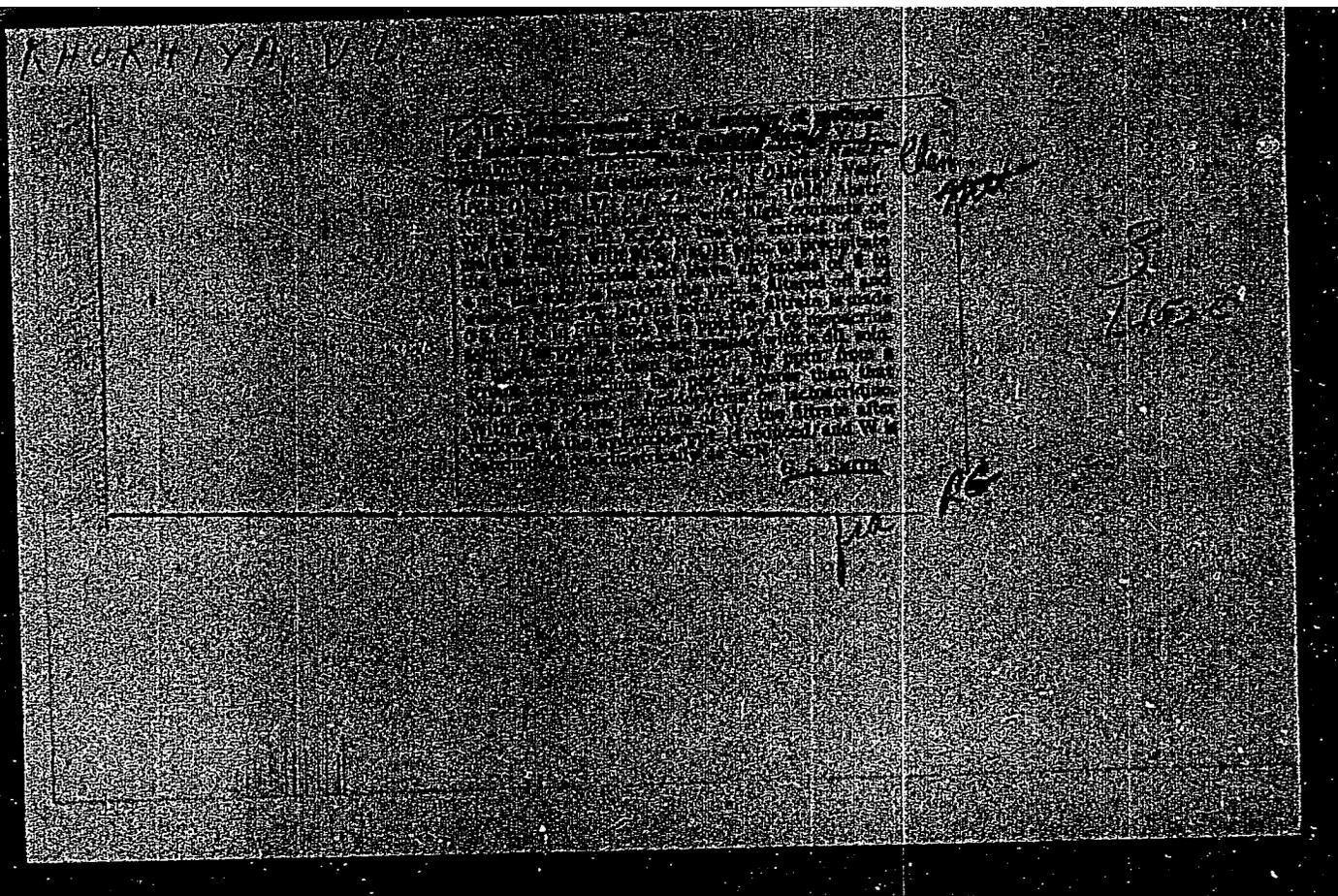
ABSTRACT: An investigation has been made of the effect of oxygen additions on the critical current density ( $j_c$ ) in Zr-Nb alloys, and on the  $\beta$ -solid solution decomposition which changes the magnitude of  $j_c$ . Electron-beam melted zirconium alloys containing 33 wt% Nb and 0.02-0.04 wt%  $O_2$  were preformed at 800-900C and cold rolled into a strip 1 mm thick which was annealed at 900-950C, in oxygen, homogenized in vacuum at 1300C for 1.5 hr, and cold rolled to a thickness of 0.5 mm with process annealing at 500, 570 or 700C for 1 hr, and then cold rolled into 0.05 mm foil without process annealing. The oxygen content in the foil varied from 0 to 1.0%. The critical current density ( $j_c$ ) was measured in a magnetic field with an intensity, H,

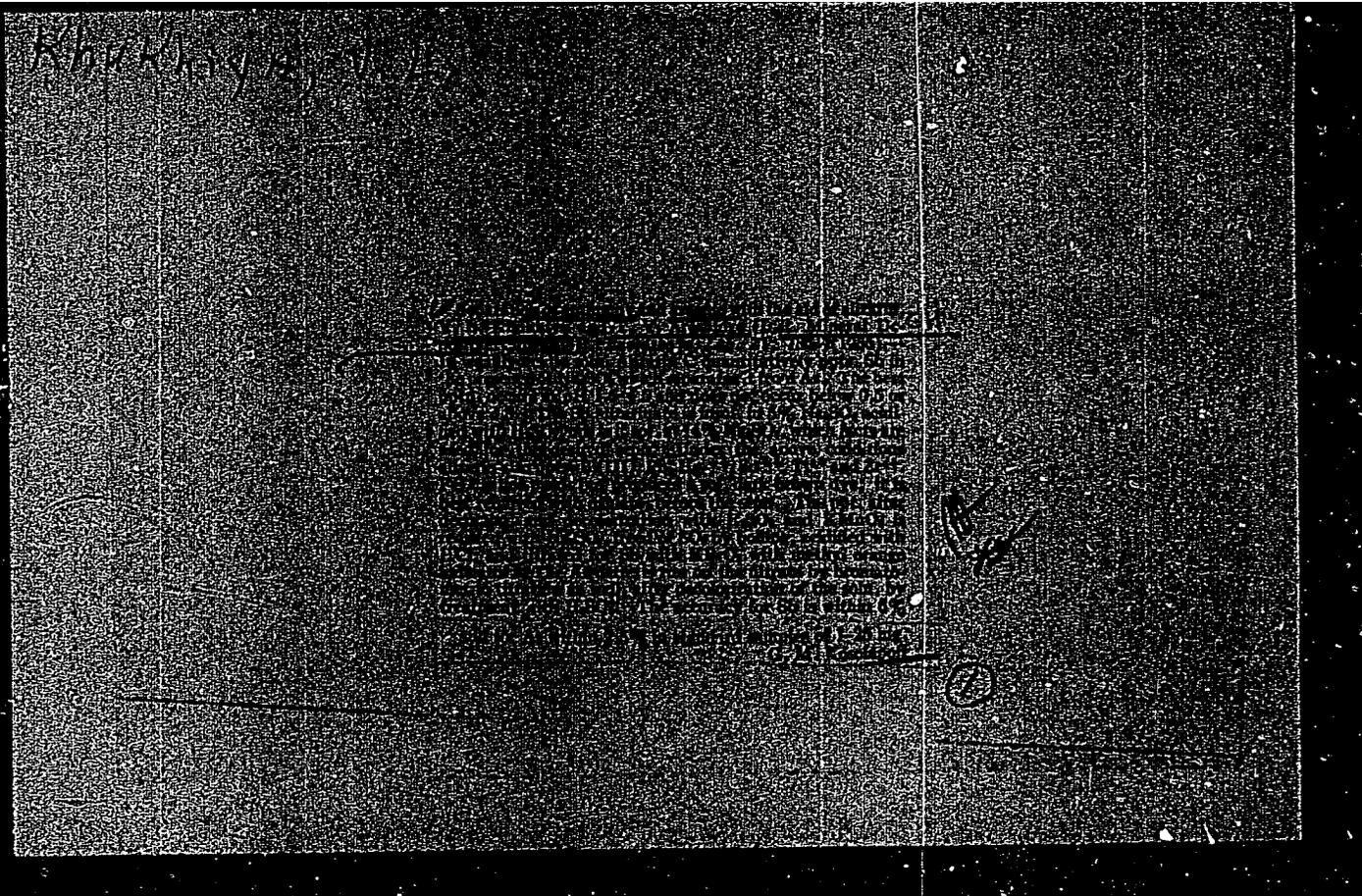
Card 1/2

KHUKHIYA, V.

Khukhiya, V.- "Potentiometric determination of barium in lithopone," Trudy tbilis. gos. un-ta im. Stalina, Vol. XXXIa, 1948, p. 29-40, (In Georgian, resume in Russian), - Bibliog: p.39

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).





KHUKHIYA, V.P.

Pharmacology of "Skuri" mineral water. Vop.kur., fizioter. i lech.  
fiz.kul't. no.4:79 '55. (MIRA 12:12)

1. Vypolnena na kafedre farmakologii Tbilisskogo meditsinskogo insti-  
tuta. Rukovoditel' - prof. G.A. TSkhimanauri.  
(GEORGIA--MINERAL WATERS)

*KHUKHLAYEV, G.A.*

ABRAMOV, B.S., inzhener; KHUKHLAYEV, G.A., inzhener.

Novosibirsk Hydroelectric Power Station. Nauka i zhizn' 21 no.11:  
4-6 N '54. (MLRA 7:12)  
(Novosibirsk Hydroelectric Power Station)

KHUKHLAYEV, G.A., inzhener.

Subjugation of the Irtysh. Nauka i zhizn' 22 no.2:5-6 P '55.  
(Bukhtarminsk Hydroelectric Power Station) (MIRA 8:3)

KHUKHLAYEV, G. inzhener-gidroenergetik.

Dam building on the Ob' River. Stroitel' no.2:4-5 F '57.

(MLRA 10:3)

(Novosibirsk Hydroelectric Power Station)

KHUKHLAYEV, G.A., inzhener.; KUPPERMAN, V.L., inzhener.

Damming the St. Lawrence River in building the Long Sault  
Dam. Gidr. stroi. 26 no. 2:53 F '57. (MIRA 10:4)  
(St. Lawrence River--Dams)

IVANOV, V.G., kand. tekhn. nauk; KUPERMAN, V.L., inzh.; KHUKHLAYEV, G.A., inzh.

Experience in damming large rivers in the U.S.A. Energ. stroi.  
no. 4:71-78 '58. (MIRA 12:2)

1. Moskovskiy energeticheskiy institut (for Ivanov). 2.  
Glavgidroenergostroymentazh (for Kuperman, Khukhlayev).  
(United States--Dams)

KUPERMAN, V.L., kand.tekhn.nauk; KHUKHLAYEV, G.A., inzh.

Photometric method of measuring excavations in rock. Gidr.stroi.  
32 no.4:48-49 Ap '62. (MIRA 15%)  
(Penstocks)

KHUKHLAYEV, Valentin

In the new and free Africa. Sov. foto 23 no.5:28-30 My '63.  
(MIRA 16:10)

1. Fotokorrespondent TASS.

ACC NR: AT6036539

SOURCE CODE: UR/0000/66/000/000/0133/0134

AUTHOR: Gorskiy, F. M.; Khukhlayev, V. K.

ORG: none

TITLE: Features of the physical training of special crews for some extremal factors [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 133-134

TOPIC TAGS: cosmonaut training, space physiology, psychophysiology, vestibular analyzer, biologic acceleration effect, psychologic stress

ABSTRACT: Scientific research data and spaceflight experience have shown that a high level of general and specific physical preparation is necessary for the successful fulfillment of a mission under extreme conditions.

A special method of physical training (requiring 5-6 months) was developed based on Soviet cosmonaut training, pilot training, and physical culture methods.

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The mission of this study was to increase the physical condition and functional capacity of the organism as well as to develop special physical qualities and habits which lend themselves to the successful tolerance of extremal factors. The mission was developed along specific guidelines, the first step of which involved the development of special qualities and habits in conjunction with physical training. The subjects developed increased vestibular stability, increased resistance to chest-back and head-pelvis accelerations, and increased ability to control their movements under difficult conditions. Psychological qualities were developed as well.

Special exercises were conducted to develop special qualities and habits. The most effective application of these exercises was assured by a complex approach. The influence of training and its effectiveness were determined by methods of physician and trainer control as well as by special controlled tests.

During the first training period, 34—38 complex tasks and 29—33 morning exercises were conducted. During this period, the team concentrated on exercises which increased the stability of the vestibular analyzer and developed equilibrium (10—13 hr), increased acceleration

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ACC NR: AT6036539

tolerance (14—16 hr), and perfected movement coordination (18—21 hr).

As a result of the training, there was a marked increase in the functional capacity of the organism, physical condition was improved, and the level of habit development was enhanced: pulse rate in response to dosed exercise decreased by 10—15 beats/min and during rest decreased by 6—8 beats/min. Vestibular stability was doubled. Equilibrium was improved (tested by walking on a pole 6 cm in diameter from 2—15 m to 50—130 m). VKFP-2 data (combined vestibular physical exercise test) showed an increase from 9 sec to 23—30 sec.

The subjects developed the habit of controlled respiration. Tolerance to static loads on the abdominal muscles was increased (from 7 sec to 17 sec). Muscular endurance of the shoulders (tests by chin-ups) increased from 30% to 150%, while arm-muscle endurance increased from 25% to 50% (tested by supported flexion and extension of the arms). Controlled exercises improved the coordination of movements. The subjects developed some sport skills (diving into water, executing the crawl, synchronized swimming, complex jumps on the trampoline etc.).

Controlled tests revealed that the mission of the first stage of physical training was successful. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 05, 06 / SUBM DATE: 00May66

Card 3/3

KHUKHLAYEV, V. K.

"On the Study and Evaluation of Flying Capacity".

Voyenno Meditsinskiy Zhurnal, No. 4, 1962

KHUKHLAYEV, V.K.; KASK, G.Yu.

Mechanical unit for stirring up frozen building materials on railroad flat and freight cars. Suggested by V.K.Khukhlaev, G.IU.Kask. Rats.i izobr.v stroi. no.9:48-50 '59.

(MIRA 13:1)

1. Rabotniki zavoda zhelezobetonnykh izdeliy No.6 Glavmos-zhelezobetona.

(Building materials--Cold weather conditions)

SHNEGLAYEVA, D. V., ANISIMOVA, V. V., BELYANOVA, E. T., KOROL', V. M., PUL'DA, M.P.

"On the prevention of deformation of the spinal column of school children."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

ADAM, Ya.I.; OVUMYAN, G.G.; KHUKHLIN, M.S., inzh., red.

[Handbook for the operator of a gear-cutting machine]  
Spravochnik zuboreza. Izd.2., perer. i dop. Moskva,  
Mashinostroenie, 1964. 314 p. (MIRA 18:2)

FYATIN, Yu.M., doktor tekhn. nauk, prof.; KAVALEROV, G.I., kand.  
tekhn. nauk, retsenzent; KHUKHLIN, M.S., inzh., red.

[Design of the electrical components of measuring instruments] Raschet elektricheskikh elementov izmeritel'nykh priborov; spravochnoe posobie. Moskva, Mashinostroenie, 1965.  
198 p. (MIRA 18:6)

ZDANOVICH, A.V. (Solnechnogorsk); KHUKHLIN, V.G. (Solnechnogorsk)

Welding of "porolon." Shvein. prom. no.6:28 N-D '63.  
(MIRA 17:2)

KHUKHLOV, N.I., mashinist-instruktor

More about the overcharging of braking lines. Elek.i tepl.  
tiaga 5 no.10:23 0 '61. (MIRA 14:10)

1. Depo Petropavlovsk Yuzhno-Ural'skoy dorogi.  
(Electric railroad--Brakes)

KHUKHLYNIN, P.V.

Oxyflux cutting of casting allowances. Mashinostroitel' no.12:  
23 D '65. (MIRA 18:12)

YEGOROV, Yu.A.; KHUKHOREV, D.S.

Using light pipes in scintillation counters. Prib.i tekh.eksp.  
no.4:136-137 J1-Ag '60. (MIRA 13:9)  
(Scintillation counters)

KHUKHRA, IU.

Letaiushchie modeli avtozhirov (Flying helicopter models). Moskva, 1953. 54 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 7, Oct. 1954

KHUKHRA, Yu.

Radio-controlled flying model airplane. Kryl.rod. 4 no.6:13-16 Je '53.  
(MLRA 6:6)  
(Airplanes--Models)

KHUKHRA, Yu.

Advice to those building models of real airplanes. Kryl.rod. 4 no.9:17  
S '53. (MIRA 6:8)  
(Airplanes--Models)

KHUKHRA, Yu.

AID - P-115

Subject : USSR/Aeronautics  
Card : 1/1  
Author : Khukhra, Yu.  
Title : Better Models in the 3d All-Union Aviation Model  
Competition  
Periodical : Kryl. Rod., 12, 21 - 23, D 1953  
Abstract : The author describes and gives diagrams of ten out-  
standing models which won prizes in this competition.  
Institution : None  
Submitted : No date

KHUKHRA, Yu., YEFREMOVA, Ye., redaktor; KARYAKINA, M. tekhnicheskiy  
~~redaktor~~

[Hand controlled flying airplane model]Kordovaia letaiushchaya  
model' samoleta, Moskva, Izd-vo Dosaaf, 1955. 36 p. (MLBA 8:7)  
(Airplanes--Models)

KHUKHRA, Yu.

AID P - 1268

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 12/15

Author : Not given

Title : New books

Periodical : Kryl. rod., 2, 17, F 1955

Abstract : Three books are briefly reviewed: 1. Vodop'yanov, M. V., On Wings in the Arctic; 2. Storchiyenko, P., From Higher Altitudes; 3. Vasil'chenko, M. and Yu. Khukhra, Line High Speed Model of the Type "Flying Wing" with a Jet Engine.

Institution : None

Submitted : No date

BARAYEV, Nikolay Alekseyevich; GAYEVSKIY, Oleg Konstantinovich; KUDRYAVTSEV, Sergey Stepanovich; MIKIRTUMOV, Emmanuil Bogdanovich; KHUKHRA, Yuriy Stepanovich; KANEVSKAYA, M.D., redaktor; ANDRIANOV, B.I., tekhnicheskii redaktor

[Airplane models; a manual for the first and second years of study]  
Aviatsionnyi modelizm; uchebnoe posobie dlia pervogo i vtorogo godov obucheniia. Pod boshchei red. E.B.Mikirtumova. Moskva, Izd-vo DOSAAF, 1956. 294 p. (MLRA 9:11)  
(Airplanes--Models)

1(3)

PHASE I BOOK EXPLOITATION

SOV/1905

Khukhra, Yuriy Stepanovich

Gonochnyye modeli samoletov (Model Airplanes for Racing) Moscow, Izd-vo DOSAAF, 1958. 44 p. (Series: Biblioteka yunogo konstruktora) 9,000 copies printed.

Eds.: Ye. V. Yefremova and B. B. Martynov; Tech. Ed.: M. S. Karyakina.

PURPOSE: This booklet is intended for airplane model builders and aviation sports amateurs.

COVERAGE: The booklet deals with the design and operation of various cord-controlled airplane models, mainly the types suited for racing contests. The article lays down the conditions of a speed contest and describes the actual operation of the model during the race. Configurations, mechanisms, and construction materials are discussed, including technical specifications. The length of the total distance to be covered is 10 km. The number of landings for refueling or servicing is optional. Each model is operated by two

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Model Airplanes for Racing

SOV/1905

contestants: a "pilot", and a mechanic-serviceman. No personalities are mentioned. There are no references.

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Design of Racing Models	7
Selection of motor	7
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AVAILABLE: Library of Congress

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KHUKHRA, Yu.

"Maliutka" motor scooter. Za rul, 16 no.6:13 Je '58. (MIRA 11:9)  
(Motor scooters)

Khukhra, Yu.

85-58-6-31/43

AUTHOR: Khukhra, Yu., Chief, Aviamodel'nyy kabinet tsentral'noy aviamodel'noy laboratorii (Model-aircraft Building Office of the Central Model-aircraft Building Laboratory)

TITLE: How to Work With Balsa Wood (Kak rabotat' s bal'zoy)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 6, pp 25-26 (USSR)

ABSTRACT: The author reviews the use of balsa wood in the construction of airplane models. There are 11 drawings.

ASSOCIATION: Model Aircraft Building Office of the Central Model Aircraft Building Laboratory

1. Airplanes--Model building

Card 1/1

KHUKHRA, Yuriy Stepanovich; BIRYUZOVA, Ye.I., red.; HLAZHENKOVA, G.I.,  
tekhn.red.

[Scale airplane models] Modeli - kopii samoletov. Moskva,  
Izd-vo DOSAAF, 1959. 122 p. (MIRA 14:1)  
(Airplanes--Models)



BABAYEV, Nikolay Alekseyevich; GAYEVSKIY, Oleg Konstantinovich;  
IVANNIKOV, Dmitriy Andreyevich; KUDRYAVTSEV, Sergey Ste-  
panovich; MIKIRTUMOV, Emmanuil Bogdanovich; KHUKHRA, Yu.;  
YEFREMOVA, Ye.V., red.; KARYAKINA, M.S., tekhn. red.

[Airplane modeling; manual for makers of airplane models and  
instructors of circles for the first and second training year]  
Aviatsionnyi modelizm; uchebnoe posobie dlia aviamodelistov i  
rukovoditelei kruzhkov pervogo i vtorogo godov obuchenia.  
Izd. 2., perer. i dop. Pod obshchei red. E.B.Mikirtumova.  
Moskva, Izd-vo DOSAAF, 1960. 286 p.      (MIRA 14:5)  
(Airplanes--Models)

KHUKHRA, Yu., sud'ya respublikanskoy kategorii

For radio-controlled models. Kryl.rod. 12 no.5:29 My '61.  
(MIRA 14:7)

(Airplanes--Models--Radio control)

KHUKHRA, Yu.

Modern radio-controlled airplane models. Kryl.rod. 14 no.1:  
29-31 Ja '63. (MIRA 16:1)  
(Airplanes--Models)

KHUKHRYANSKIY, Pavel Nikolayevich, prof.; SMOLENSKIY, K.I., red.

[Compression of wood] Pressovanie drevesiny. 3. izd., ispr.  
i dop. Moskva, Lesnaia promyshlennost', 1964. 350 p.

(MIRA 17:12)

KHUKHRIKOV, S.S., kandidat tekhnicheskikh nauk.

Approximate numerical method for calculating transient processes  
in linear and nonlinear systems (recurrent formula method). Trudy  
MAI no.66:25-34 '56. (MLRA 9:11)  
(Automatic control)  
(Transients (Electricity))

~~KHICHURIKOV, Sargay Sargayevich, kandidat tekhnicheskikh nauk; IVANOV-ESY-  
GANOV, A.I., kandidat tekhnicheskikh nauk, redaktor; SUVOROVA,  
I.A., redaktor; LEBEDEVVA, L.A., tekhnicheskii redaktor.~~

[Approximate numerical method for calculating transition processes  
in linear and nonlinear systems (method of recurrent formulas)].  
Priblizhennyi chislennyi metod rascheta perekhodnykh protsessov  
v lineinykh i nelineinykh sistemakh (metod rekurentnykh formul).  
Moskva, Gos. izd-vo obor. promyshl., 1957. 57 p. (Moscow, Avi-  
atsionnyi institut. Trudy, no.78). (MLRA 10:6)  
(Differential equations) (Approximate computation)

USPENSKAYA, N.V.; ISTRATOV, V.N., kand.tekhn.nauk; DMITRIYEV, S.N.;  
SUROV, M.G.; BOGATYREV, O.M.; KUPALYAN, S.D., kand.tekhn.  
nauk; KAMENSKIY, A.V.; KAMENSKIY, A.V.; TIMOFEYEV, A.B.;  
KHUKHRIKOV, S.S.; ANTONOVA, S.D., izdat.red.; ZUDAKIN, I.M.,  
tekhn.red.

[Collection of problems pertaining to the theoretical  
principles in electrical engineering] Sbornik zadach po  
teoreticheskim osnovam elektrotekhniki. Pod red. V.N.Istra-  
tova i S.D.Kupaliana. Moskva, Gos.izd-vo obor.promyshl.,  
1959. 124 p. (MIRA 13:1)

1. Moscow, Aviatsonnyy institut imeni Sergo Ordzhonikidze.  
(Electricity--Problems, exercises, etc.)

ATABEKOV, Grigoriy Iosifovich; TIMOFEYEV, Andrey Borisovich;  
KHUKHRIKOV, Sergey Sergeevich; LEVITAN, S.A., red.;  
BORUNOV, N.I., tekhn. red.

[Theoretical principles of electrical engineering in three  
parts] Teoreticheskie osnovy elektrotehniki v trekh chastiakh.  
Moskva, Gosenergoizdat, Pt.2. [Nonlinear networks] Nelineinye  
tsepi. 1962. 127 p. (MIRA 16:3)  
(Electric engineering) (Electric networks)

KHUKHRIN, G.

PA 16T4

USSR/Shipbuilding  
Ships, Cargo - Design

Jul 1947

"Ships With Flat Hull Contours," G. Khukhrin, 5 pp

"Mor Flot" No 7, Vol. 7, p. 29-33

Recommends the use of flat contour construction for  
leagoing cargo barges for maximum exploitation of  
cargo space. Diagrams and cross sections of  
recommended hulls.

16T4

KHUKHRIN, G.

Textbook containing serious errors ("Checking operations at sea and in the dock" by M.P.Belov and others. Reviewed by G.Khukhrin). Mor.flot 19 no.6:44 Jo '59. (MIRA 12:9)

1. Glavnyy konstruktor TSentral'nogo proyektuo-konstruktorskogo byuro No.2.

(Ships--Inspection)

KHUKHRIN, P.N.; LEBEDEV, M.G.; SMURCV, A.M.

Machining bevel gear blanks stamped with ready teeth. Stan.1  
instr. 32 no.11:27-38 N '61. (MIRA 14:10)  
(Gear cutting)

ASHCHEULOV, A.T.; PAVLICHUK, T.A.; KHUKHRINA, M.D.

Relation of the resolving power of photographic materials to the  
lens aperture. Usp.nauch.fot.no.4:88-105 '55. (MLRA 9:4)  
(Photographic optics)



ASHCHEULOV, A.T.; PAVLICHUK, T.A.; KHUKHRINA, M.D.

New methods for checking photographic objectives. Opt.-mekh.prom.  
[25] no.3:3-8 Nr '58. (MIRA 11:9)  
(Lenses, Photographic--Testing)

ASHCHEULOV, A.T.; PAVLICHUK, T.A.; KHUKHRINA, M.D.

New methods for testing photographic objectives. Opt.-mekh.prom.  
25 no.5:12-15 My '58. (MIRA 11:9)  
(Lenses, Photographic--Testing)

ASHCHEULOV, A.T.; PAVLICHUK, T.A.; KHUKHRINA, M.D.

Contrast of the lattice image formed by microscope lenses.

Zhur.nauch.i prikl.fot.i kin. 8 no.1:64-67 Ja-F '63.

(MIRA 16:2)

1. Gosudarstvennyy opticheskiy institut imeni S.I.Vavilova.  
(Lenses, Photographic)

ASHCHEULOV, A.T. [deceased]; PAVLICHUK, T.A.; KHUKHRINA, M.D.

Evaluation of photography systems by means of the method of frequency-contrast characteristics based on the sinusoidal grating. Usp.nauch.fot. 10:7-15 '64. (MIRA 17:10)

USSR/Medicine - Harmful Aerosols and Dusts Feb 52

"Concerning Problem of Methods To Be Used in Investigating Experimentally the Biological Effect of Industrial Dust," Ye. V. Khukhrina, Chair of Labor Hygiene, First Moscow Order of Lenin Med Inst

"Gig i San" No 2, pp 29-32

To standardize conditions, used special app equipped with glass dust inhalation mask for exptl animal (rat or rabbit). Steady stream of air contg const concn of dust is blown through the mask. Any desired concn of dust can be established. App was used to study harmful effect of silicon dioxide  
206r80

USSR/Medicine - Harmful Aerosols and Dusts (Contd) Feb 52

dust (e.g., "white soot"), aerosols of molybdenum and vanadium, dusts of manganese compds, etc. The app in question was designed by M. F. Bromley of the All-Union Sci Res Inst of Labor Protection.

206r80

KHUKHRINA, Ye. V.

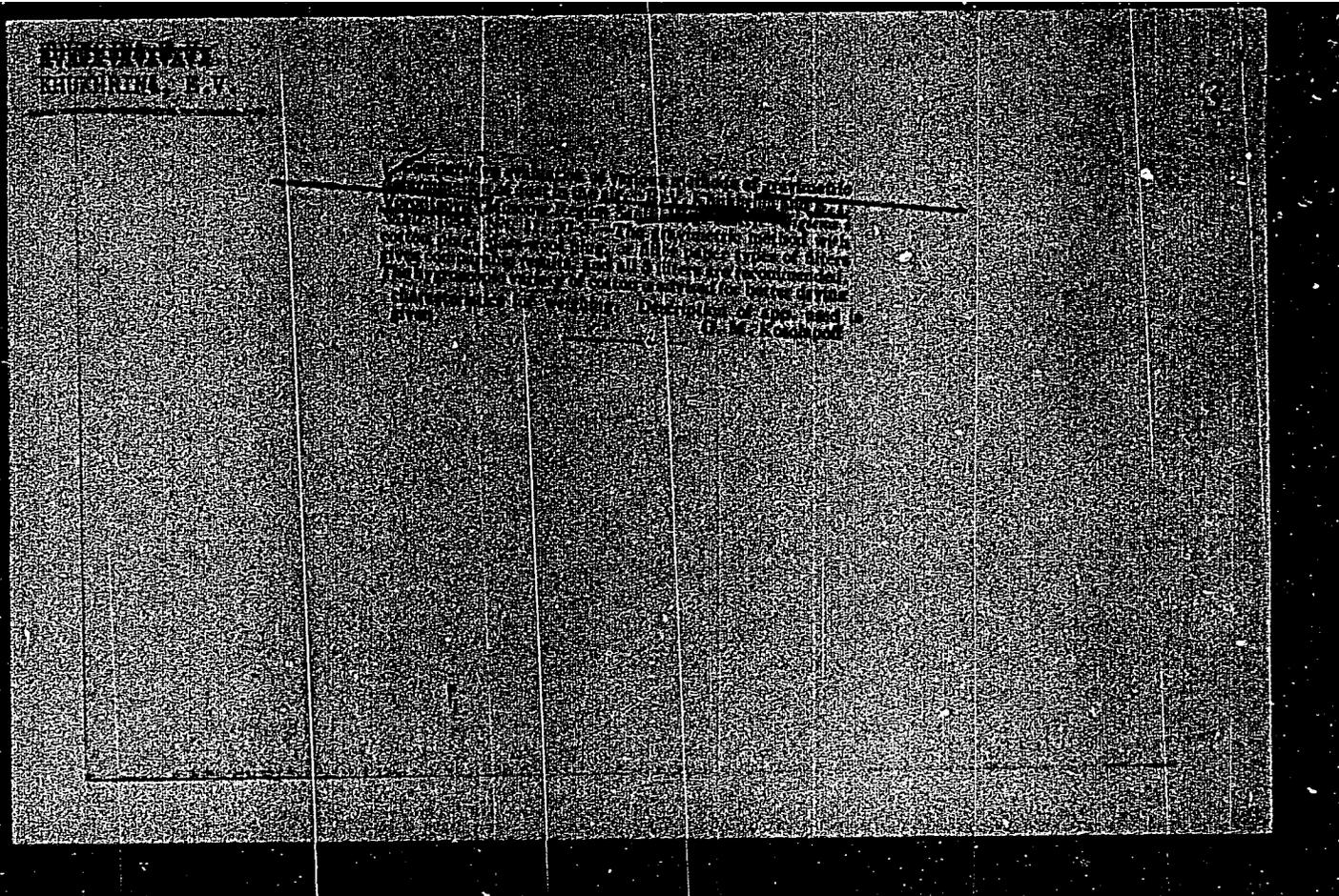
KHUKHRINA, Ye.V., kandidat meditsinskikh nauk.

Standardization of methods of investigating air pollution. Bor'ba  
s sil. 1:141-150 '53. (MLBA 7:10)

1. Moskovskiy oblastnoy sanitarno-gigiyenicheskiy institut.  
(AIR--POLLUTION). (DUST)

KHUKHRINA, Ye.V.

Methods of examination and hygienic evaluation of the amount of dust in  
the air. Gig.i san. no.6:16-20 Je '53. (MLBA 6:6)  
(Dust) (Air--Analysis)



KHUKHRINA, Ye.V., kandidat meditsinskikh nauk; VORONTSOVA, Ye.I.,  
kandidat meditsinskikh nauk

Comparative evaluation of different methods for the determination  
of dust pollution of air. Bor'ba s sil. 2:205-214 '55. (MLRA 9:5)

1. Moskovskiy oblastnoy nauchno-issledovatel'skiy sanitarno-  
gigiyenicheskiy institut (for Khukhrina) 2. Institut gigiyeny  
truda i profzabolevaniy Akademii meditsinskikh nauk SSSR (for  
Vorontsova)  
(DUST)

KHUKHRINA, Ye.V., kandidat meditsinskikh nauk.

Experimental silicosis caused by dust of various degrees of dispersion.  
Gig. i san. 21 no.1:31-38 Ja. '56 (MLRA 9:5)

1. Iz Moskovskogo oblastnogo nauchno-issledovatel'skogo sanitarno-gigiyenicheskogo instituta.

(SILICOSIS, exper.

caused by dust. with various degrees of dispersion)

(DUST,

of various degrees of dispersion, use in prod. of exper. silicosis)

**KHUKHRINA, Ye.V.**

"How to avoid contracting silicosis." E.I.Vorontsova, A.P.Shatilov.  
Reviewed by E.V.Khukhrina. Gig. i san. 21 no.8:60-61 Ag '56.

(LUNGS--DUST DISEASES)

(MLHA 9:11)

(~~VORONTSOVA, E.I.~~) (SHATILOV, A.P.)

**KHUKHRINA, Ye.V.**

"Methods for studying the degree of dust and smoke pollution of the  
air" by A.I.Burshtein. Reviewed by E.V.Khukhrina. Oig. 1 san. 21  
no.11:53-56 N '56. (MIRA 10:2)

(AIR--POLLUTION)

(BURSHTEIN, A.I.)

KHUKHRINA, Ye. V. Doc Med Sci -- (diss) " Methods of <sup>the</sup>hygienic  
study of industrial dust." Mos, 1957. 14 pp 20 cm. (Acad Med Sci USSR).  
200 copies (KL, 22-57, 107)

-31-

KHUKHRINA, Ye. V.

ISAYEV, N.S.; SMELYANSKIY, Z.B.; KHOTSYANOV, L.K.; KHUKHRINA, Ye.V.  
(Moskva)

On the project for new sanitary standards to be observed in the  
planning of industrial enterprises (substituting standard 101-54)  
Gig.turda i prof.zab. no.4:3-11 J1-Ag '57. (MIRA 10:11)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR i kafedra  
gigiyeny truda Tsentral'nogo instituta usovershenstvovaniya vrachey  
(INDUSTRIAL HYGIENE--STANDARDS)

*KHUKHRINA, Ye. V.*

KHUKHRINA, Ye. V. (Moskva)

Pneumoconiosis abroad; a survey of published works. Gig.truda i  
prof.zab. 1 no.3:59-63 My-Je '57. (MIRA 11:1)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR  
(LUNGS--DUST DISEASES)

KHUKHRINA, Ye. V., doktor med.nauk

~~\_\_\_\_\_~~  
Dust. Zdorov'ie 4 no.8:11-13 Ag '58  
(DUST)

(MIRA 11:7)

KHURKHINA, Ye.V.

Conference on silicosis control held by the Brezovskiy research station of the Institute of Industrial Hygiene and Occupational Diseases of the Academy of Sciences of the U.S.S.R. Vest. AMN SSSR 13 no.9:75-78 '58 (MIRA 11:10)  
(LUNGS—DUST DISEASES)

LETAVET, A.A., prof., otv. red.; DVIZHKOV, P.P., prof., red.; MOLOKANOV, K.P., prof., red.; IVANOV, V.I., prof., red.; MOROZOV, A.L., prof., red.; PAVLOVA, I.V., kand. med. nauk, red.; KHUKHRINA, Ye.V., doktor med. nauk, red.; FEDOROVA, V.I., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Transactions of the Symposium on the Problem of Pneumoconiosis; etiology and pathogenesis] Trudy simpoziuma po probleme pnevmokoniozov, 1957; etiologiya i patogenez. Red. kollegiya; A.A. Letavet i dr. Moskva, Gos. izd-vo med. lit-ry, 1959. 275 p.  
(MIRA 14:5)

1. Simpozium po probleme pnevmokoniozov, 1957. 2. Deystvitel'nyy chlen AMN SSSR (for Letavet). 3. Institut gigiyeny truda i prof-zabolevaniy AMN SSSR, Moskva (for Letavet, Dvizhkov, Ivanov, Pavlova, Fedorova)

(LUNGS--DUST DISEASES)

DVIZHKOV, P.P., prof.; KOCHETKOVA, T.A., kand.med.nauk; KHUKHRINA, Ye.V.,  
doktor med.nauk

Reaction of connective tissue to the subcutaneous injection of  
dust with a high content of free silicon dioxide. Bor'ba s sil.  
4:98-102 '59. (MIRA 12:11)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR.  
(CONNECTIVE TISSUES--DISEASES)  
(DUST--PHYSIOLOGICAL EFFECT)

KHUKHINA, Ya. V. kand. med. nauk

Current problems in sanitary standards for the dust content  
of air in factory buildings. Gig. i san. 24 no.7:50-55  
Jl '59. (MIRA 12:9)

1. Iz Instituta gigiyony truda i professional'nykh zabolevaniy  
AMN SSSR.

(INDUSTRIAL HYGIENE

hyg. standards for dust content in air of  
working places, current problems (Rus))

(DUST

same)

LETAVET, A.A., prof., otv. red.; MOLOKANOV, K.P., prof., red.; DVIZHKOV, P.P.,  
prof., red.; KHUKHRINA, Ye.V., doktor med. nauk, red.; IVANOV, V.I.,  
prof., red.; MOROZOV, A.L., prof., red.; PAVLOVA, I.V., kand. med.  
nauk, red.

[Clinical aspects of pneumoconiosis] Klinika pnevmokoniozov; trudy.  
Moskva, In-t gigieny truda i profzabolevanii AMN SSSR, 1960. 181 p.

1. Simpozium po probleme pnevmokoniozov, Moscow, 1957. 2. Deystvi-  
tel'nyy chlen Akademii meditsinskikh nauk SSSR (for Letavet).  
3. Institut gigiyeny truda i profzabolevaniy Akademii meditsin-  
skikh nauk SSSR (for Molokanov).

(LUNGS--DUST DISEASES)

KHUKHRINA, Ye.V. (Moskva)

Methods for studying the incidence of pneumoconiosis. Gig. truda  
i prof. zab. 4 no.4:7-13 Ap '60. (MIRA 15:4)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR.  
(LUNGS—DUST DISEASES)

~~KHUKHRINA, Ye. V.~~; GO NAY; DVIZHKOV, P. P.; KOCHETKOVA, T. A.;  
LOBOVA, T. T. (Moskva)

Maximum admissible concentrations of some kinds of inorganic  
dust. Gig. truda i prof. zab. 5 no.7:16-23 J1 '61.  
(MIRA 15:7)

1. Institut gigiyeny truda i professional'nykh zabolevaniy  
AMN SSSR.

(DUST)

KHUKHRINA, Ye.V.

Problem of pneumoconiosis; review of the work of the out-of-town session of the Academy of Medical Sciences of the U.S.S.R. and the Republic Commission on Silicosis Control of the Academy of Sciences of the Ukrainian S.S.R. Gig. i san. 26 no.9:92-99 S '61. (MIRA 15:3)

(LUNGS--DUST DISEASES)

KHUKHRINA, Ye.V. doktor med.nauk, prof.

New data on the pathogenesis, clinical aspects, and treatment of  
pneumoconiosis. Bor'ba s sil. 5:275-277 '62. (MIRA 16:5)

1. Institut gigiyeny truda i professional'nykh zabolevaniy AMN  
SSSR.

(LUNGS--DUST DISEASES)

LETAVET, Avgust Andreyevich, prof., red.; KHUKHRAINA, Yekaterina  
Vladimirovna, prof., red.; VOLKOVA, Z.A., red.

[Control of dust formation in industry] Bor'ba s s pyleob-  
razovaniem na proizvodstve. Moskva, Meditsina, 1964. 271 p.  
(MIRA 18:2)

1. Akademiya meditsinskikh nauk, Moscow. 2. Deystvitel'nyy  
chlen ANN SSSR (for Letavet).

KHODAROVA, Y.V., prof., doktor med. nauk

Study of the incidence of pneumoconiosis. Bulletin of the USSR Academy of Sciences  
(MIRA 1984)

In: Institut gigiyany truda i professional'nykh zabolevaniy, AMN  
SSSR.

LETAVST, Avgust Andreyevich, prof., red.; KHUKHINA, Yekaterina  
Vjislavovna, prof., red.; PETROV, A.N., red.

[Methods for studying industrial dust and the incidence of  
pneumoconiosis] Metody izucheniia proizvodstvennoi pyli i  
zabolevaemosti pnevmokoniozami. Leningrad, Meditsina, 1965.  
121 p. (MIRA 18:10)

*Khukhriv, A.A.*

DROKIN, V.D.; KHUKHRIY, A.A.; KOSTYUKOV, Ya.Kh., professor, doktor tekhnicheskikh nauk; redaktor; DONSKOY, Ya.Ye., redaktor; SHEVCHENKO, M.G., tekhnicheskiy redaktor

[Perfecting the technology of finishing large machine parts] So-  
vershenstvovanie tekhnologii obrabotki krupnykh detalei.  
[Khar'kov] Khar'kovskoe obl.izd-vo, 1955. 113 p. (MIRA 9:3)  
(Machinery--Construction)

KHUKHRIY, A.A., inzhener.

Grinding horizontal joint surfaces for large body parts;  
experience of the Kharkov turbine construction plant.  
Energomashinostroenie no.7:24-25 J1 '56.

(MLRA 9:10)

(Kharkov--Grinding and polishing)

KHUKHROV, I.; KRESTNIKOV, I.

From practices in the utilization of power presses for lard  
crackling pressing. Mias.ind.SSSR 33 no.2:41-42 '62. (MIRA 15:5)

1. Leningradskiy myasokombinat.  
(Lard)

KHUKHROV, M.

Change the managerial structure of savings banks. Fin.SSSR 20  
no.4:56-57 Ap. '59. (MIRA 12:6)

1. Nachal'nik operativnogo otdela gostrudsherkass i goskredita  
Krasnoyarskogo kraya.  
(Savings banks)

KHUKHRYANSKAYA, T. P.

Wood, Compressed

Effect of the direction of pressing on the durability of lumber,  
Der. i lesokhim. prom. 2 No. 3, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

1. KHUKRYANSKAYA, T. P.
2. USSR (600)
4. Pine
7. Strength of pine lumber according to forest type. Les. khoz. 6 No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KHUKHRIANSKAIA, T. P.

"Influence of the pressing angle on the durability of wood." Tr. from the Russian.  
p. 91. (ANALELE ROMANO-SOVIETICE. SERIA SILVICULTURA-INDUSTRIA LEMINULUI SI A HARTIEI,  
Series a II-a, Vol. 7, no. 4, July/Aug. 1953, Series a II-a, Vol. 7, no. 5, Sept./Oct.  
1953, Bucuresti, Rumania)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 4, April 1954, Uncl.

KHUKHRYANSKAYA, T. P.

U S S R

The effect of compression on the structure of aspen and pine wood. T. P. Khukhryanskaya. *Trudy Inst. Lesa, Akad. Nauk S.S.S.R.*, 9, 444 (1963).—An x-ray study of aspen (I) and pine (II) showed that the cellulose structure is the same for I and II, and remains unchanged when the woods are compressed to 60% of the original vol. The orientation of the cellulose is greater in summerwood than in springwood. In compressed I orientation of the cellulose in the plane parallel to compression is increased, and in the perpendicular plane is decreased, whereas in compressed II orientation in both planes is increased. J. L. K.



Khukhryanskaya, T. P.  
KHUKHRYANSKAYA, T.P.

Deformation of moist birchwood bent endwise and compressed circumferentially. Der. prom. 6 no.10:21-22 0 '57. (MIRA 10:11)  
(Wood)

KHUKHRYANSKAYA, T.P.

Determining the volumetric weight and hardness of bent blackwood.  
Der.prom. 7 no. 7:17-18 J1 '58. (MIRA 11:8)

1. Voronezhskiy sel'skokhozyaystvennyy institut.  
(Wood--Testing)

*KHUKHRYANSKIY, A.K.*  
TOLMACHEV, V.I.; ~~KHUKHRYANSKIY, A.K.~~

Turbidimetric method of determining sulfuric acid in baths for  
chromium-plating. Uch.zap, KHGU 71:107-109 '56. (MLRA 10:8)  
(Sulfuric acid) (Chromium plating)



1ST AND 2ND CROSS  
3RD AND 4TH CROSS  
PROCESSES AND PROPERTIES INDEX  
20

ca

Impregnation of wood with lubricating oils. F. N. Khukhryanskii. *Lesokhim. Prom.* 2, No. 6, 56-8(1939); *Chem. Zvest.* 1940, 1, 1931; cf. C. A. 34, 8267. — Pine, aspen, birch and ash woods were soaked in spindle oil both in the natural condition and when compressed up to 35-40%. At 20-25° all 4 kinds of wood showed only unimportant swelling in both cases. In 7 days the swelling amounted to 6-18% for the natural wood and 21-43% for the compressed wood. At 60-70° pine and ash showed 2.2-2.8% swelling per day, while birch and aspen swelled scarcely any. At 112-20° there was contraction up to 3%. The treatment increased the resistance to bending, reduced the hardness and also reduced the technical usefulness.

M. G. Moore

COMMON ELEMENTS  
COMMON VARIABLE MOIE  
OPEN MATERIALS INDEX  
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION  
FROM SCHWAB  
FROM SCHWAB

KHUKHRYANSKIY, P.M.

Practice and tasks of guaranteed repair of housing facilities. Gor.khoz.  
Mosk. 25 no.7:35-37 J1 '51. (MLBA 6:11)  
(Moscow--Building--Repair and reconstruction)  
(Repair and reconstruction--Building--Moscow)

KHUKHRYANSKIY, PROF P. N., DR TECH SCI

USSR/Engineering - Substitute  
Materials

Jun 53

"Noiseless Pressed-Wood Gears," Prof P. N. Khukhryan-  
skiy, Dr Tech Sci, Voronezh Forest Products Economy  
Inst

Derevopere i Lesokhim Prom<sup>2</sup>/<sub>1</sub> No 6, pp 19-21

Gives details of construction, type of wood, ad-  
vantages, and examples of successful industrial use  
of compressed-wood gears used as substitutes for  
gears of textolite, bronze, and ferrous metals. Have  
been used in forging-press equipment, metal-working  
lathes, and looms.

269T42

KHUKHRYANSKIY, P.N., doktor tekhnicheskikh nauk, professor; APOSTOL, A.V., inzhener.

Bearings made from pressed wood used in building machines. Mekh.stroi. 10  
no.5:29-30 My '53. (MLRA 6:6)

(Building machinery) (Bearings (Machinery))